



THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Applicants: Ping Zhu

Serial No.: 10 043,995

Art Unit: 1642

Filed: January 11, 2002

Examiner: Not Yet Assigned

For: PRODUCTION METHOD OF MICRO-REACTORS GENE CHIPS

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

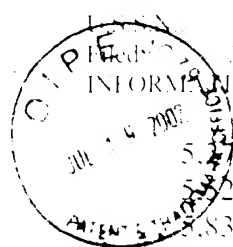
Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicant submits an Information Disclosure Statement, including three (3) pages of Form PTO-1449 and a copy of twenty-two (22) documents cited therein. We were unable to locate copies of those references indicated with an asterisk (*). We will forward copies of these shortly.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

U.S. Patents

Number	Issue Date	Patentee	Class Subclass
4,656,127	04-07-1987	Mundy	435 6
4,683,195	07-28-1987	Mullis et al.	435 6
5,002,867	03-26-1991	Maceviej	435 6
5,143,854	09-01-1992	Pirrung et al.	436 518
5,202,231	04-13-1993	Drmanac et al.	435 6



10 043,995

January 11, 2002

INFORMATION DISCLOSURE STATEMENT

5,273,632	12-28-1993	Stockham et al.	204 180.1
5,327,681	06-18-1996	Holmes	435 6
5,837,832	11-17-1998	Chee et al	536 22.1
6,132,724	10-17-2000	Blum	424 195.1

Foreign Documents

<u>Number</u>	<u>Publication Date</u>	<u>Patentee</u>	<u>Country</u>
WO 92 10588	06-25-1992	Affymax Technologies	PCT
WO 93 17126	09-02-1993	Public Health Research Institute of the City of New York, Inc.	PCT
1249437	04-05-2000	Univ. Beijing (CN)	CN
1252452	05-10-2000	Univ. Dongnan (CN)	CN

Publications

*CRONIN et al., Hybridization to Arrays of Oligonucleotides, Poster Presentation: Nucleic Acids In Medical Applications Conference sponsored by AACCC, published in conference syllabus, Cancun, Mexico, 1993.

EICKHOFF, et al., "Tissue gene expression analysis using arrayed normalized cDNA libraries," *Genome Res.* 10(8):1230-1240 (2000).

LI, et al., "Analysis of fused genes resulting from 29 chromosomal aberrations in leukemia," *Chin J Pediatr* 39(11):682-685 (2001).

*LIPSHUTZ, et al., Oligonucleotide Arrays for Hybridization Analysis, Genome Sequencing and Analysis Conference V, Hilton Head, SC 1993.

LIPSHUTZ, "Likelihood DNA sequencing by hybridization," *J Biomol Struct Dyn* 11(3):637-653 (1993).

*LOBBAN et al., DNA Chips for Genetic Analysis, Genome Sequencing and Analysis Conference V, Hilton Head, SC, 1993.

MARAM, et al., *Methods in Enzymology* (Grossman, et al., eds.) vol. 65, pp. 449-559, Academic Press, Inc.: Orlando, (1980).

PASINEN, et al., "A system for specific, high-throughput genotyping by allele-specific primer extension on microarrays," *Genome Res.* 10(7):1031-1042 (2000).

SAMBROOK et al., "Synthetic Oligonucleotide Probes," *Molecular cloning: a laboratory manual*, pp. 1145-1147, Cold Spring Harbor Laboratory Press: New York, 1989.

SANGER et al., "DNA sequencing with chain-terminating inhibitors," *Proc. Natl. Acad. Sci. U.S.A.* 74(12):5463-5467 (1977).

SOUTHERN et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," *Genomics* 13(4):1008-1017 (1992).

WATSON, "New tools. A new breed of high-tech detectives," *Science* 289(5481):850-854 (2000).

Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicant invites the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicant is of the opinion that his claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,

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Dated: July 15, 2002


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U.S.S.N. 10,043,995
Filed: January 11, 2002
INFORMATION DISCLOSURE STATEMENT

Certificate of Mailing under 37 C.F.R. § 1.8(a)

I hereby certify that this Information Disclosure Statement, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date shown below with sufficient postage as first-class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: July 15, 2002



Brent A. Winitz

ATL 1 #527202 v1

FILED

App. No. 10/043,995
 Date of Filing: 01/11/2002
 Date of Publication: 07/01/2002

Substitute for form 1449A PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary.)

Sheet 1 of 3



Complete if Known

Application Number	10/043,995
Filing Date	January 11, 2002
First Named Inventor	Ping Zhu
Group Art Unit	1642
Examiner Name	
Attorney Docket Number	PKU 100

U.S. PATENT DOCUMENTS

Examiner Interest	Class	U.S. Patent Document	Name of Patentee or Applicant of U.S. Patent Document	Date of U.S. Patent Document	Pages, Columns, Lines, Where Applicable, Passages or Remarks of U.S. Patent Document
		4,655,127	Mundy	04-07-1987	
		4,683,195	Mullis et al	07-28-1987	
		5,002,867	Macevicz	03-26-1991	
		5,143,854	Pirrung et al	09-01-1992	
		5,202,231	Drmanac et al.	04-13-1993	
		5,273,632	Stockham et al	12-28-1993	
		5,527,681	Holmes	06-18-1996	
		5,837,832	Chee et al	11-17-1998	
		6,132,724	Blum	10-17-2000	

FOREIGN PATENT DOCUMENTS

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		92 10588	Affymax Technologies	05-25-1992	
		93 17126	Public Health Research Institute of the City of New York, Inc.	09-02-1993	
		1249437	Univ. Beijing (CN)	04-16-2001	
		1252452	Univ. Dongnan (CN)	05-10-2000	

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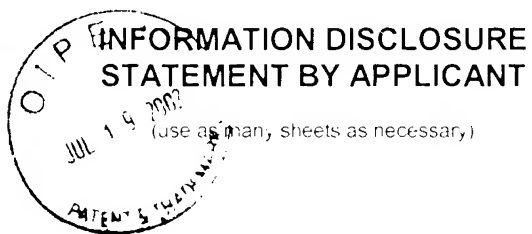
EXAMINER: [Name] has examined the information disclosed in this statement and has determined that the information is relevant to the prior art of the invention claimed in the application.

The information disclosed in this statement is being provided to the applicant for information only. It is not to be used as evidence in the examination of the application.

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Filing Date	January 11, 2002
First Named Inventor	Ping Zhu
Group Art Unit	1642
Examiner Name	
Attorney Docket Number	PKU 100

Sheet 2 of 3

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Other Art
	<p>CRONIN et al. "Hybridization to Arrays of Oligonucleotides, Poster Presentation, Nucleic Acids In Medical Applications Conference sponsored by AACC, published in conference syllabus, Cancun, Mexico, 1993</p> <p>EICKHOFF, et al. "Tissue gene expression analysis using arrayed normalized cDNA libraries," <i>Genome Res.</i> 10(8) 1230-1240 (2000)</p> <p>LI, et al. "Analysis of fused genes resulting from 29 chromosomal aberrations in leukemia," <i>Chin J. Pediatr.</i> 39(11) 682-685 (2001)</p> <p>LIPSHUTZ et al., Oligonucleotide Arrays for Hybridization Analysis, Genome Sequencing and Analysis Conference V, Hilton Head, SC 1993</p> <p>LIPSHUTZ, "Likelihood DNA sequencing by hybridization," <i>J. Biomol. Struct. Dyn.</i> 11(3) 637-653 (1993)</p> <p>LOBBAN et al., DNA Chips for Genetic Analysis, Genome Sequencing and Analysis Conference V, Hilton Head, SC 1993</p> <p>MARAM, et al. <i>Methods in Enzymology</i> (Grossman, et al., eds.) vol. 65, pp. 449-556, Academic Press, Inc., Orlando (1980)</p> <p>PASTINEN, et al. "A system for specific, high-throughput genotyping by allele-specific primer extension on microarrays," <i>Genome Res.</i> 10(7), 1031-1042 (2000).</p> <p>SAMBRONK et al. "Synthetic Oligonucleotide Probes," <i>Molecular cloning, a laboratory manual</i>, pp. 1145-1147, Cold Spring Harbor Laboratory Press, New York, 1989</p> <p>SANGER et al. "DNA sequencing with chain-terminated deoxynucleosides," <i>Proc. Natl. Acad. Sci. USA</i> 74(12) 5463-5467 (1977)</p>

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